**APEX UNIT TESTING ASSIGNMENT**

**Test Classes for Assignment : Apex Trigger and Enterprise Pattern**

**//Test for TeacherTrigger:**

@isTest

public class notAllowTeacherTest {

@isTest static void teacherTestMethod(){

Teacher\_\_C teacher = new Teacher\_\_c();

teacher.name = 'Test Teacher';

teacher.Subject\_\_c = 'Hindi';

Test.startTest();

insert teacher;

Test.stopTest();

}

}

**//Test for DeleteClassTrigger:**

@isTest

public class deleteClassTest {

@isTest static void deleteClassMethod(){

Class\_\_c testClass = new Class\_\_c();

testClass.Name = 'Test Class';

testClass.MaxSize\_\_c = 2;

insert testClass;

List<Class\_\_c> classId = [select id, name from class\_\_c where name = 'Test Class'];

Student\_\_c stuOne = new Student\_\_c();

stuOne.Name = 'test student one';

stuOne.Class\_\_c = classId[0].id;

stuOne.Sex\_\_c = 'Female';

insert stuOne;

Student\_\_c stuTwo = new Student\_\_c();

stuTwo.Name = 'test student two';

stuTwo.Class\_\_c = classId[0].id;

stuTwo.Sex\_\_c = 'Female';

insert stuTwo;

List<Class\_\_c> classList = [select name from class\_\_c where name = 'Test Class'];

Test.startTest();

Database.DeleteResult result = Database.delete(testClass, false);

Test.stopTest();

System.assert(!result.isSuccess());

System.assert(result.getErrors().size() > 0);

System.assertEquals('Cannot delete class',result.getErrors()[0].getMessage());

}

}

**//Test for ClassLimitTrigger:**

@isTest

public class classLimitTest {

@isTest static void classLimitMethod(){

Class\_\_c testClass = new Class\_\_c();

testClass.Name = 'Test Class';

testClass.MaxSize\_\_c = 2;

insert testClass;

List<Class\_\_c> classId = [select id, name from class\_\_c where name = 'Test Class'];

Student\_\_c stuOne = new Student\_\_c();

stuOne.Name = 'test student one';

stuOne.Class\_\_c = classId[0].id;

stuOne.Sex\_\_c = 'Female';

Student\_\_c stuTwo = new Student\_\_c();

stuTwo.Name = 'test student two';

stuTwo.Class\_\_c = classId[0].id;

stuTwo.Sex\_\_c = 'Female';

Student\_\_c stuThree = new Student\_\_c();

stuThree.Name = 'test student three';

stuThree.Class\_\_c = classId[0].id;

stuThree.Sex\_\_c = 'Female';

Test.startTest();

insert stuOne;

insert stuTwo;

insert stuThree;

Test.stopTest();

}

}

**//Test for myCountTrigger:**

@isTest

public class myCountTest {

@isTest static void myCountMethod(){

Class\_\_c testClass = new Class\_\_c();

testClass.Name = 'Test Class2';

testClass.MaxSize\_\_c = 2;

insert testClass;

List<Class\_\_c> classId = [select id, name from class\_\_c where name = 'Test Class2'];

Student\_\_c stuOne = new Student\_\_c();

stuOne.Name = 'test student one';

stuOne.Class\_\_c = classId[0].id;

stuOne.Sex\_\_c = 'Female';

insert stuOne;

Student\_\_c stuTwo = new Student\_\_c();

stuTwo.Name = 'test student two';

stuTwo.Class\_\_c = classId[0].id;

stuTwo.Sex\_\_c = 'Female';

insert stuTwo;

Student\_\_c stuThree = new Student\_\_c();

stuThree.Name = 'test student three';

stuThree.Class\_\_c = classId[0].id;

stuThree.Sex\_\_c = 'Female';

insert stuThree;

List<Class\_\_c> classLimitList = [select MaxSize\_\_c from class\_\_c where name = 'Test Class2'];

System.debug(classLimitList[0].MaxSize\_\_c);

Test.startTest();

System.assertEquals(classLimitList[0].MaxSize\_\_c , 3);

Test.stopTest();

}

}

**//Test for StageChangeTrigger:**

@isTest

public class stageChangeTest {

@isTest static void stageChangeMethod(){

Opportunity opp = new Opportunity();

opp.Name = 'New test opportunity';

opp.CloseDate = System.today().addDays(10);

opp.StageName = 'Prospecting';

insert opp;

List<Opportunity> oppp = [SELECT Name, StageName FROM Opportunity WHERE name = 'New test opportunity'];

for(Opportunity o: oppp){

o.StageName = 'Closed Won';

}

Test.startTest();

update oppp;

Test.stopTest();

List<Opportunity> oppp2 = [SELECT Name, StageName, closeDate FROM Opportunity WHERE name = 'New test opportunity'];

System.debug(oppp2.size());

for(Opportunity o: oppp2){

System.debug('3 - '+o.Name + o.StageName + o.CloseDate + System.today());

System.assertEquals(o.CloseDate, System.today().addDays(1));

}

}

}

**//Test for resetClassTrigger:**

@isTest

public class resetClassTest {

@isTest static void resetClassMethod(){

Class\_\_c testClass = new Class\_\_c();

testClass.Name = 'Test Class';

testClass.MaxSize\_\_c = 2;

insert testClass;

List<Class\_\_c> classId = [select id, name from class\_\_c where name = 'Test Class'];

Student\_\_c stuOne = new Student\_\_c();

stuOne.Name = 'test student one';

stuOne.Class\_\_c = classId[0].id;

stuOne.Sex\_\_c = 'Female';

insert stuOne;

Student\_\_c stuTwo = new Student\_\_c();

stuTwo.Name = 'test student two';

stuTwo.Class\_\_c = classId[0].id;

stuTwo.Sex\_\_c = 'Female';

insert stuTwo;

}

}